



LPCG12-100 (12V 100Ah)

| Specifications | |
|-------------------------------|--|
| Rated Voltage | 12V |
| Nominal Capacity | 100Ah (C ₂₀ 1.80V/cell) |
| Dimensions | Length 330 mm |
| | Width 173 mm |
| | Container Height 212 mm |
| | Total Height 218 mm |
| Approx. Weight | 32.0 Kg (70.5lbs) |
| Terminal | T11 |
| Layout | 1 |
| Container material | ABS |
| Rated Capacity (25°C) | 100.0Ah (20hr,5.00A,1.80V/cell) |
| | 88.8Ah (10hr,8.88A,1.80V/cell) |
| | 80.0Ah (5hr,16.0A,1.75V/cell) |
| | 72.0Ah (3hr,24.0A,1.75V/cell) |
| | 56.3Ah (1hr,56.3A,1.67V/cell) |
| Max. Discharge Current | 888A (5s) |
| Internal Resistance (25°C) | Approx 6.40mΩ |
| | Discharge: -20°C ~55°C (-4~131°F) |
| Operating Temp. Range | Charge: 0°C ~40°C (32~104°F) |
| | Storage: -20°C ~50°C (-4~122°F) |
| Nominal Operating Temp. Range | 25±3°C (77±5 °F) |
| Cycle Use | Initial Charging Current less than 22.0A. Voltage 14.4V~14.7V at 25 °C(77 °F)Temp. Coefficient -30mV/ C |
| | Initial Charging Current less than 22.0A. Voltage 13.5V~13.8V at 25 °C(77 °F)Temp. Coefficient -20mV/ C |
| Standby Use | 40°C (104°F) 103% |
| | 25°C (77°F) 100% |
| | 0°C (32°F) 86% |
| Effect Of Temp. To Capacity | LPCG series batteries may be stored for up to 9 months at 25 °C (77 °F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. |
| Self Discharge | |



Description and Features

The LPCG Series gel batteries are specially designed for deep cyclic use. These gel batteries are completely sealed and therefore 100% maintenance free and leak-proof. The powerful and stable gel batteries offer a long service life and are suitable for deep cycle applications. Available in a range of 12V batteries from 30Ah to 200Ah.

Features

- Gel technology
- More resistant to deep discharge and higher temperatures
- Long service life – 50% more cycles than VRLA AGM
- Suitable for extreme (deep) cycle applications

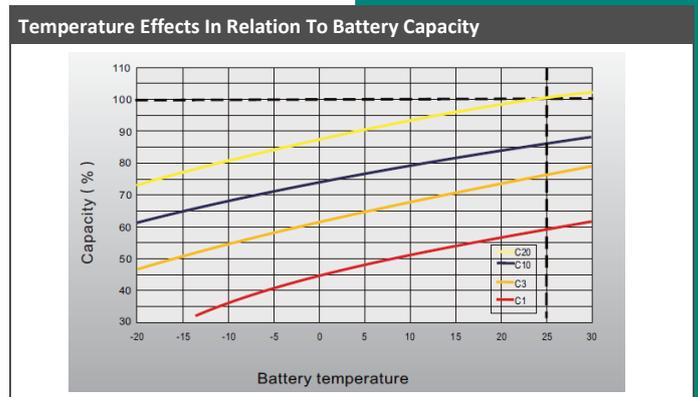
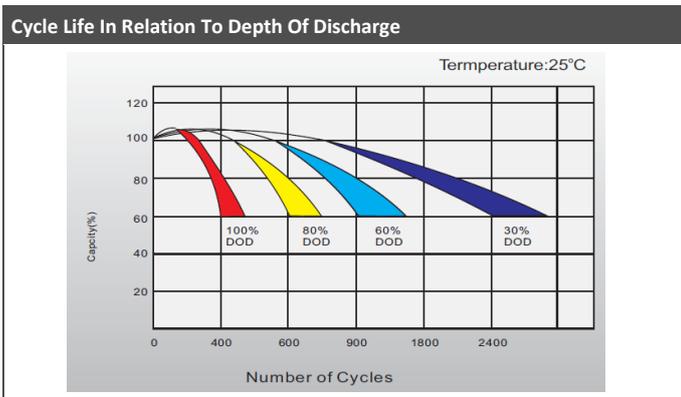
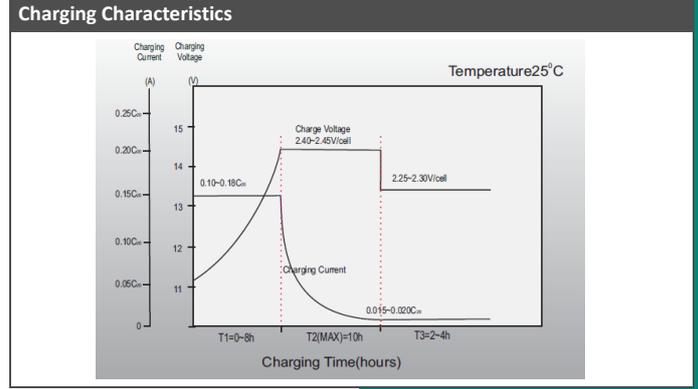
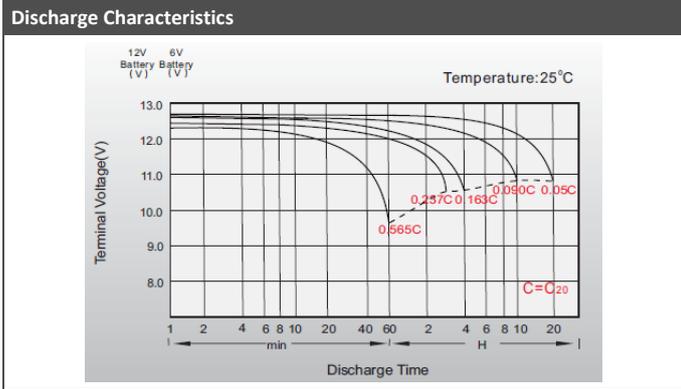
| Layout | Terminal | UL certification |
|--------|----------|------------------|
| | | |

| Constant Current Discharge (Amperes) At 25°C (77°F) | | | | | | | | | |
|---|------|------|------|------|------|------|------|-------|-------|
| F.V/Time | 1 Hr | 2 Hr | 3 Hr | 4 Hr | 5 Hr | 6 Hr | 8 Hr | 10 Hr | 20 Hr |
| 1.85V/cell | 43.1 | 26.5 | 21.0 | 17.0 | 14.8 | 12.9 | 10.4 | 8.62 | 4.66 |
| 1.80V/cell | 47.7 | 29.3 | 23.1 | 18.4 | 15.6 | 13.7 | 10.9 | 8.88 | 5.00 |
| 1.75V/cell | 53.6 | 31.4 | 24.0 | 19.1 | 16.0 | 14.1 | 11.0 | 9.06 | 5.06 |
| 1.67V/cell | 56.3 | 32.6 | 24.8 | 19.4 | 16.5 | 14.4 | 11.2 | 9.15 | 5.12 |
| 1.60V/cell | 58.1 | 33.3 | 25.1 | 19.8 | 16.8 | 14.6 | 11.3 | 9.24 | 5.20 |

| Constant Power Discharge (Watts/Cell) At 25°C (77°F) | | | | | | | | | |
|--|-------|------|------|------|------|------|------|-------|-------|
| F.V/Time | 1 Hr | 2 Hr | 3 Hr | 4 Hr | 5 Hr | 6 Hr | 8 Hr | 10 Hr | 20 Hr |
| 1.85V/cell | 83.8 | 51.9 | 41.2 | 33.5 | 29.0 | 25.4 | 11.8 | 17.1 | 9.25 |
| 1.80V/cell | 92.2 | 56.9 | 45.0 | 36.2 | 30.4 | 26.8 | 12.0 | 17.4 | 9.85 |
| 1.75V/cell | 102.6 | 60.8 | 46.7 | 37.2 | 31.3 | 27.6 | 12.2 | 17.9 | 9.95 |
| 1.67V/cell | 106.6 | 62.6 | 47.8 | 37.6 | 32.0 | 27.9 | 12.4 | 18.0 | 10.2 |
| 1.60V/cell | 109.0 | 63.4 | 48.1 | 38.1 | 32.5 | 28.3 | 12.6 | 18.1 | 10.3 |



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Applications

- Electrically powered wheelchair
- Vehicle in place of walking
- Lawn-mower
- Golf trolleys and golf cart
- Railway and marine systems

General Features

- Special plate design, long cycle life
- ≥600 Cycles @ 80%DOD
- Operation temperature - 20~55°C
- ≤2% Self discharge per month
- Good deep discharge resilience performance

Standards

- IEC 60896 Certified
- Classified as “Long Life” according to Eurobat
- UL Certified
- UKCA Certified (for UK)
- IATF16949, ISO 9001, ISO 14001 and OHSAS 18001 certified production facilities

(Note) All above information shall be changed without prior notice, Landport Batteries reserves the right to explain and update the latest information.